

In the Claims:

Kindly cancel claims 9-12 and 14 without prejudice.

1-14. (cancelled)

15. (new) A sheet sorting apparatus comprising:
a stacking tray for stacking sheets formed with images;
a processing tray for temporarily stacking sheets in a
process leading to the stacking tray;
a first path for discharging the sheets to the stacking tray
without temporarily stacking the sheets on the processing tray;
a second path for discharging the sheets to the stacking
tray after discharged sheets are temporarily stacked on the
processing tray;
shifting means for shifting the sheets stacked on the
processing tray to change a stacking position of a direction that
intersects a sheet discharge of the sheets stacked on the
stacking tray via the first path and the sheets stacked on the
stacking tray via the second path;
capacity recognition means for recognizing whether a
stacking limit of the processing tray is exceeded by detecting a
volume of the sheets temporarily stacked on the processing tray;
control means for alternately stacking sheets in the
stacking tray from the first path and from the second path by
activating the shifting means when sheet sorting is specified for
a predetermined number of sheets on the stacking tray; and
for discharging the sheets thus far temporarily stacked on
the processing tray to the stacking tray, activating the shifting

means so that the stacking of subsequent sheets is possible at the same stacking position on the stacking tray as the sheets just discharged from the processing tray until a predetermined number of sheets is reached, and discharging the subsequent temporarily stacked sheets from the processing tray when the predetermined number of sheets is reached, when the capacity recognition means recognizes that a stacking limit of the processing tray has been exceeded when temporarily stacking the sheets in the processing tray in the second path.

16. (new) The sheet sorting apparatus of claim 15, wherein the temporary stacking of the subsequent sheets onto the processing tray is stopped when the capacity recognition means recognizes the stacking limit of the processing tray has been exceeded.

17. (new) The sheet sorting apparatus of claim 15, wherein the capacity recognition means comprises counting means for counting a number of the sheets stacked on processing tray.

18. (new) The sheet sorting apparatus of claim 15, wherein the capacity recognition means comprises a level sensor to measure a height level of the sheets stacked on the processing tray.

19. (new) The sheet sorting apparatus of claim 15, wherein a sheet bundle discharged from the processing tray via the second path and at least a first sheet of a sheet bundle discharged from the first path are overlapped to sort from these sheets for discharge to the stacking tray.

20. (new) A sheet sorting apparatus comprising:
a stacking tray for stacking sheets formed with images;
a processing tray for temporarily stacking sheets in a
process leading to the stacking tray;
a first path for discharging the sheets to the stacking tray
without temporarily stacking the sheets on the processing tray;
a second path for discharging the sheets to the stacking
tray after discharged sheets are temporarily stacked on the
processing tray;
shifting means for shifting the sheets temporarily stacked
on the processing tray to sort sheet bundles by changing a
stacking position of sheets stacked in the stacking tray via the
first path and sheets stacked in the stacking tray via the second
path;
capacity recognition means for recognizing whether a
stacking limit of the processing tray is exceeded by detecting a
volume of the sheets temporarily stacked on the processing tray;
control means for stopping the shifting action, discharging
the shifted sheets from the processing tray to the stacking tray,
then restarting the action of the shifting means so that the
shift position is the same for the previous discharged sheets and
the subsequent discharged sheets until a predetermined number of
sheets is reached, and discharging subsequent stacked sheets when
the sheets have reached a predetermined number from the
processing tray to the stacking tray, when the capacity
recognition means recognizes that a stacking limit of the

processing tray has been exceeded when stacking the sheets in the processing tray.

21. (new) The sheet sorting apparatus of claim 20, wherein a sheet bundle discharged from the processing tray via the second path and at least a first sheet of a sheet group discharged from the first path to sort from these sheets are overlapped for discharge to the stacking tray.

22. (new) A sheet sorting apparatus comprising:
a stacking tray for stacking sheets formed with images;
a processing tray for temporarily stacking sheets in a process leading to the stacking tray;
shifting means for changing a stacking position by shifting the sheets stacked on the processing tray to sort for each sheet bundle stacked on the stacking tray;

capacity recognition means for recognizing whether a stacking limit of the processing tray is exceeded by detecting a volume of the sheets temporarily stacked on the processing tray;
control means for stopping the shifting action of the shifting means, discharging sheets that had been shifted thus far from the processing tray to the stacking tray, discharging the sheets shifted thus far from the processing tray to the stacking tray, and then restarting the movement of the shifting means so that the shift position is the same for the previous discharged sheets and the subsequent sheets, and discharging the subsequent sheets from the processing tray to the stacking tray when the predetermined number of sheets is reached, when the capacity

recognition means recognizes that a stacking limit of the processing tray has been exceeded when stacking the sheets in the processing tray.

23. (new) The sheet sorting apparatus of claim 22, wherein the sheets shifted by the shifting means that stacks the sheets on the processing tray bridge the processing tray and the stacking tray.

24. (new) The sheet sorting apparatus of claim 23, further comprising pressing means for pressing the sheets stacked on the stacking tray.